

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 141P101

Luminaire Tested: **CR-232A**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 141P101  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: CR-232A  
Description: Corlite Corridor Luminaire  
Light Source: Two - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.9

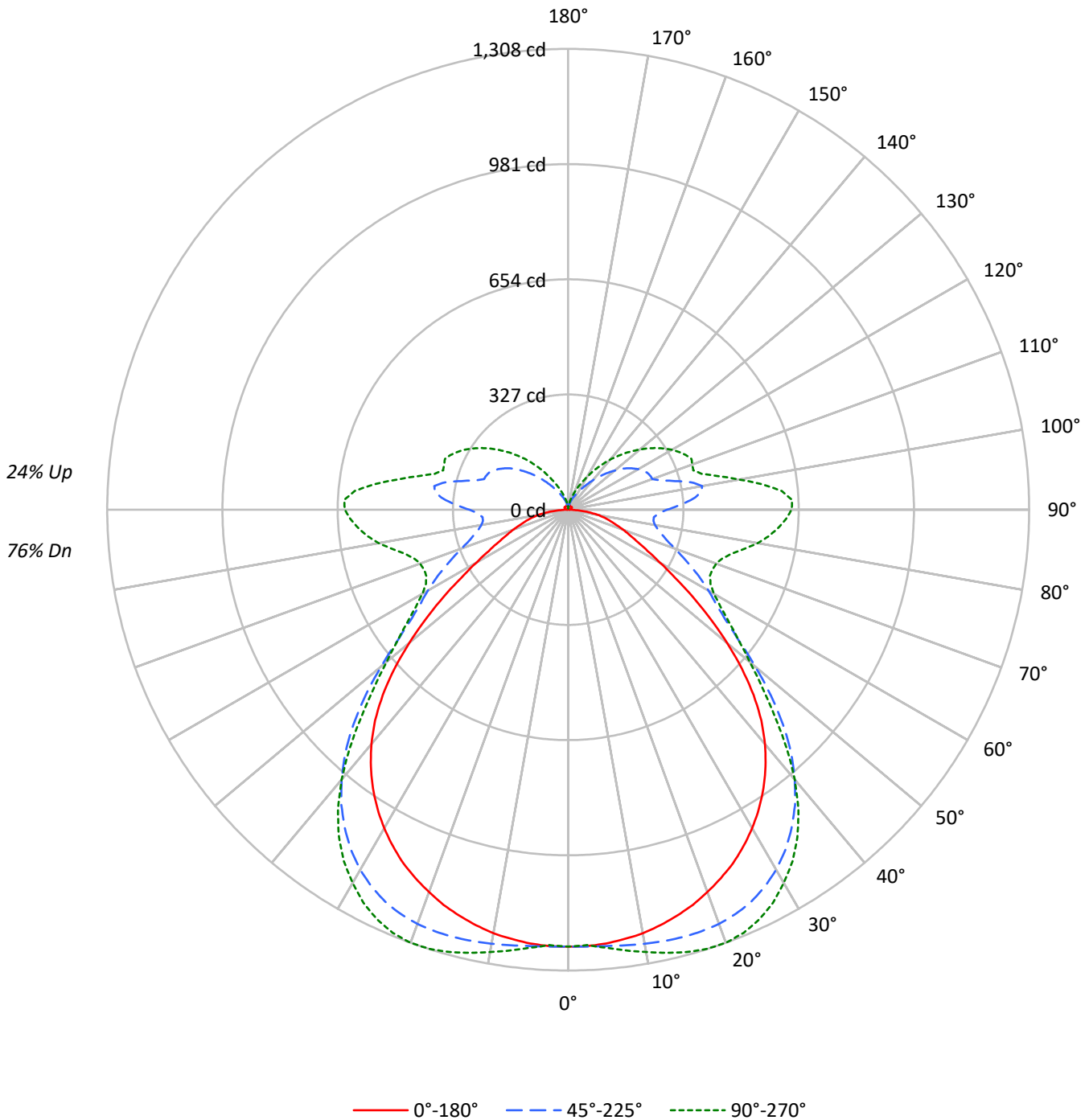
**Summary**

Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 5008.5 lumens  
Efficiency: 87.9%  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.41 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 55.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	95	95	95	95	86	86	86	78	78	78	70	70	70	67
1	89	85	80	77	85	81	77	73	73	70	67	66	64	61	59	58	56	53
2	81	74	67	62	77	70	65	60	64	59	55	58	54	51	52	49	47	44
3	74	65	58	52	70	62	55	50	56	51	46	51	47	43	46	43	40	37
4	68	57	50	44	64	55	48	43	50	44	40	46	41	37	41	37	34	32
5	62	51	44	38	59	49	42	37	45	39	34	41	36	32	37	33	30	28
6	58	46	39	33	55	44	37	32	41	35	30	37	32	28	34	30	26	24
7	53	42	34	29	51	40	33	28	37	31	27	34	29	25	31	27	24	22
8	50	38	31	26	47	37	30	25	34	28	24	31	26	23	29	24	21	19
9	46	35	28	23	44	34	27	23	31	25	21	29	24	20	26	22	19	17
10	43	32	26	21	41	31	25	21	29	23	19	27	22	18	25	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6963	6963	6963
5°	6930	6767	6734
10°	6888	6659	6670
15°	6824	6588	6648
20°	6752	6517	6591
25°	6669	6401	6420
30°	6539	6203	6124
35°	6350	5903	5726
40°	6059	5473	5131
45°	5568	4874	4358
50°	4796	4085	3655
55°	3881	3376	3153
60°	3057	3038	2842
65°	2561	2747	2815
70°	2319	2496	3053
75°	2190	2386	3591
80°	2065	2454	4531
85°	1516	2796	5634



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	118.9	2.4	2.1	0°	1240	1240	1240	1240	1240	
10°-20°	354.3	7.1	6.2	5°	1236	1239	1243	1250	1248	117
20°-30°	558.2	11.1	9.8	15°	1193	1215	1256	1292	1300	337
30°-40°	672.4	13.4	11.8	25°	1107	1154	1228	1275	1283	509
40°-50°	634.8	12.7	11.1	35°	966	1030	1105	1135	1134	602
50°-60°	477.6	9.5	8.4	45°	744	813	862	846	829	569
60°-70°	360.4	7.2	6.3	55°	431	507	544	561	557	389
70°-80°	308.3	6.2	5.4	65°	218	287	386	434	444	221
80°-90°	322.7	6.4	5.7	75°	124	181	276	388	481	132
90°-100°	352.7	7.0	6.2	85°	40	115	244	501	598	42
100°-110°	277.2	5.5	4.9	90°	2	95	280	554	634	3
110°-120°	220.2	4.4	3.9	95°	3	98	356	570	608	2
120°-130°	165.6	3.3	2.9	105°	6	141	314	375	393	6
130°-140°	103.5	2.1	1.8	115°	11	116	248	340	368	11
140°-150°	52.8	1.1	0.9	125°	12	94	205	281	305	11
150°-160°	21.0	0.4	0.4	135°	11	64	140	208	226	9
160°-170°	6.7	0.1	0.1	145°	11	40	82	130	146	7
170°-180°	1.2	0.0	0.0	155°	12	24	44	62	77	6
0°-30°	1031.4	20.6	18.1	165°	13	16	22	27	35	4
0°-40°	1703.7	34.0	29.9	175°	14	14	12	9	6	1
0°-60°	2816.2	56.2	49.4	180°	10	10	10	10	10	
0°-90°	3807.7	76.0	66.8							
90°-120°	850.0	17.0	14.9							
90°-150°	1171.9	23.4	20.6							
90°-180°	1201.0	24.0	21.1							
0°-180°	5008.5	100.0	87.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1240	1240	1240	1240	1240
2.5°	1240	1242	1241	1243	1237
5°	1236	1239	1243	1250	1248
7.5°	1229	1235	1247	1261	1262
10°	1221	1230	1251	1272	1275
12.5°	1208	1223	1254	1283	1288
15°	1193	1215	1256	1292	1300
17.5°	1176	1204	1255	1298	1307
20°	1155	1190	1251	1298	1308
22.5°	1132	1173	1242	1291	1300
25°	1107	1154	1228	1275	1283
27.5°	1077	1130	1207	1252	1258
30°	1044	1101	1180	1220	1223
32.5°	1007	1068	1146	1181	1184
35°	966	1030	1105	1135	1134
37.5°	920	985	1057	1078	1073
40°	869	934	1000	1011	1000
42.5°	811	877	936	933	917
45°	744	813	862	846	829
47.5°	669	743	780	759	746
50°	589	667	693	680	673
52.5°	509	587	610	614	610
55°	431	507	544	561	557
57.5°	360	436	497	519	512
60°	301	376	460	485	477
62.5°	254	326	423	457	455
65°	218	287	386	434	444
67.5°	190	258	352	414	443
70°	165	230	321	398	447
72.5°	143	204	295	388	459
75°	124	181	276	388	481
77.5°	106	161	261	401	512
80°	86	144	250	429	546
82.5°	63	127	244	465	574
85°	40	115	244	501	598
87.5°	17	103	255	530	618
90°	2	95	280	554	634
92.5°	2	96	319	575	636
95°	3	98	356	570	608
97.5°	3	102	381	536	555
100°	4	110	386	479	493
102.5°	5	125	359	421	438
105°	6	141	314	375	393
107.5°	7	146	275	347	372
110°	9	133	254	345	375



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10	120	252	348	378
115°	11	116	248	340	368
117.5°	12	113	239	328	355
120°	12	108	230	314	340
122.5°	12	101	218	298	323
125°	12	94	205	281	305
127.5°	12	87	190	264	286
130°	12	79	173	246	266
132.5°	12	71	157	227	246
135°	11	64	140	208	226
137.5°	11	58	125	189	205
140°	11	52	109	170	186
142.5°	11	46	95	150	165
145°	11	40	82	130	146
147.5°	11	35	70	110	126
150°	11	31	60	92	108
152.5°	12	27	51	76	92
155°	12	24	44	62	77
157.5°	12	22	38	51	64
160°	13	19	32	42	53
162.5°	13	18	27	34	43
165°	13	16	22	27	35
167.5°	14	15	18	21	27
170°	14	15	15	16	20
172.5°	14	14	13	11	13
175°	14	14	12	9	6
177.5°	15	14	11	8	4
180°	10	10	10	10	10

(END OF REPORT)